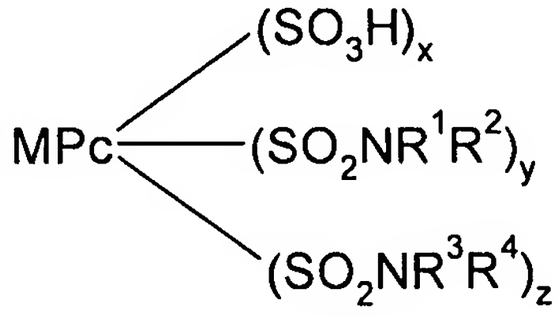
IN THE CLAIMS

1. (original): A process for forming an image on a substrate comprising applying an ink thereto by means of an ink-jet printer wherein the ink comprises a liquid medium and a phthalocyanine dye fraction obtainable by the fractionation of a solution and/or suspension of a mixture of phthalocyanine dyes of Formula (1), and salts thereof, by cross-flow filtration:



Formula (1)

wherein:

M is 2H, copper or nickel;

Pc represents a phthalocyanine nucleus;

R^1 and R^3 independently are H or optionally substituted C_{1-4}alkyl;

R^2 and R^4 independently are H or optionally substituted hydrocarbyl; or

R^1 and R^2, and, R^3 and R^4, independently, together with the nitrogen atom to which they are attached represent an optionally substituted aliphatic or aromatic ring system;

x is 0 to 3.9;

y is 0 to 3.9;

z is 0.1 to 4; and

the sum of (x+y+z) is 2.4 to 4.5.

2. (original): A process according to claim 1 wherein the substrate is paper.

3. (original): A process according to either claim 1 or claim 2 wherein the substrate is photographic quality paper.

4. (currently amended): A process according to ~~any one of the preceding claims~~ claim 1 wherein the ink has a viscosity of less than 20cP at 25°C; contains less than 500ppm in total of divalent and trivalent metal ions (other than any divalent and trivalent metal ions bound to a component of the ink); contains less than 500ppm halide ions; and has been filtered through a filter having a mean pore size below 10μm.

5. (currently amended): A process according to ~~any one of the preceding claims~~ claim 1 where in the mixture of phthalocyanine dyes of Formula (1) M is Cu.

6. (currently amended): A process according to ~~any one of the preceding claims~~ claim 1 where in the mixture of phthalocyanine dyes of Formula (1) R^1, R^2, and R^3 are all H and R^4 is hydroxyethyl.

7. (currently amended): A process according to ~~any one of the preceding claims~~ claim 1 where in the mixture of phthalocyanine dyes of Formula (1) R^3 is H, R^4 is carboxyphenyl and y is 0.

8. (currently amended): A process according to ~~any one of the preceding claims~~ claim 1 where in the mixture of phthalocyanine dyes of Formula (1) R^3 and R^4 are both H and y is 0.

9. (currently amended): A process according to ~~any one of the preceding claims~~ claim 1 wherein the cross-flow filtration membrane is an ultrafiltration membrane.

10. (original): A process according to claim 9 wherein the ultrafiltration membrane has a nominal molecular weight cut-off in the range of from 5,000 to 500,000.

11. (currently amended): A process according to ~~either~~ claim 9 ~~or claim 10~~ wherein the ultrafiltration membrane has a nominal molecular weight cut-off in the range of from 20,000 to 100,000.

12. (currently amended): A process according to ~~any one of the preceding claims~~ claim 1 or claim 9 wherein cross-flow filtration is through a series of 2 or more membranes.

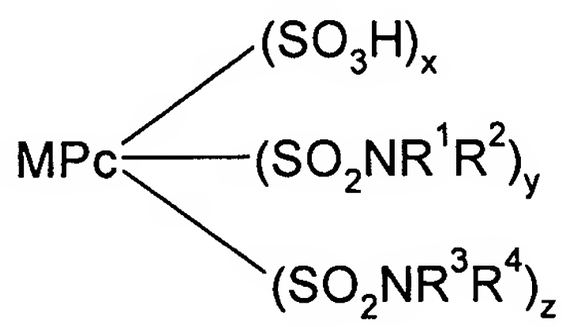
13. (currently amended): A printed substrate obtainable by means of a process as described in ~~any one of claims 1 to 12~~ claim 1.

14. (original): A printed substrate according to claim 13 which comprises paper.

15. (original): A printed substrate according to either claim 13 or claim 14 which is a photographic quality print.

16. (original): An ink-jet printing ink that comprises:

i) a phthalocyanine dye fraction obtainable by the fractionation of a solution and/or suspension of a mixture of phthalocyanine dyes of Formula (1) and salts thereof by cross-flow filtration :



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wherein:

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R^1 and R^2, and, R^3 and R^4, independently, together with the nitrogen atom to which they are attached represent an optionally substituted aliphatic or aromatic ring system;

x is 0 to 3.9;

y is 0 to 3.9;

z is 0.1 to 4; and

the sum of (x+y+z) is 4; and

(ii) a liquid medium:

wherein the ink has a viscosity of less than 20cP at 25°C; contains less than 500ppm in total of divalent and trivalent metal ions (other than any divalent and trivalent metal ions bound to a component of the ink); contains less than 500ppm halide ions; and has been filtered through a filter having a mean pore size below 10μm.

17. (original): An ink-jet printer cartridge comprising a chamber and an ink wherein the ink is in the chamber and the ink is as defined in claim 16.